



Data Warehousing and other stuff

**27th HCAT Program Review
New Orleans
January 2007**

Report Documentation Page			<i>Form Approved OMB No. 0704-0188</i>	
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The HCAT home page – www.hcat.org



The screenshot shows the HCAT homepage in a web browser. The title bar reads "HCAT Home Page - Opera". The address bar shows "http://www.hcat.org/". The page features the HCAT logo with three stars and a maple leaf, and text indicating it is sponsored by ESTCP, SERDP, and TPC. A yellow arrow points from the address bar to the URL "www.hcat.org" on the right. The main content area includes a "HCAT MEETING" section for January 24-28 with a "Click here for Information & Registration" link, and a "For the agenda click here" button. A large yellow arrow points from the "HCAT MEETING" section to a yellow box on the right containing the text: "To reach the data warehouse you click HERE to go to www.materialoptions.co". Below this, another yellow arrow points from the "For the agenda click here" button to a yellow box containing the text: "HCAT info". The left sidebar lists various links: "HCAT Member Workspace", "About HCAT", "Reports & Joint Test Protocols", "Publications & Presentations", "Aircraft Systems Being Validated", "Related Web Sites", and "Contact HCAT".



HCAT data site – www.materialoptions.com

Username: hcate@hcate.org



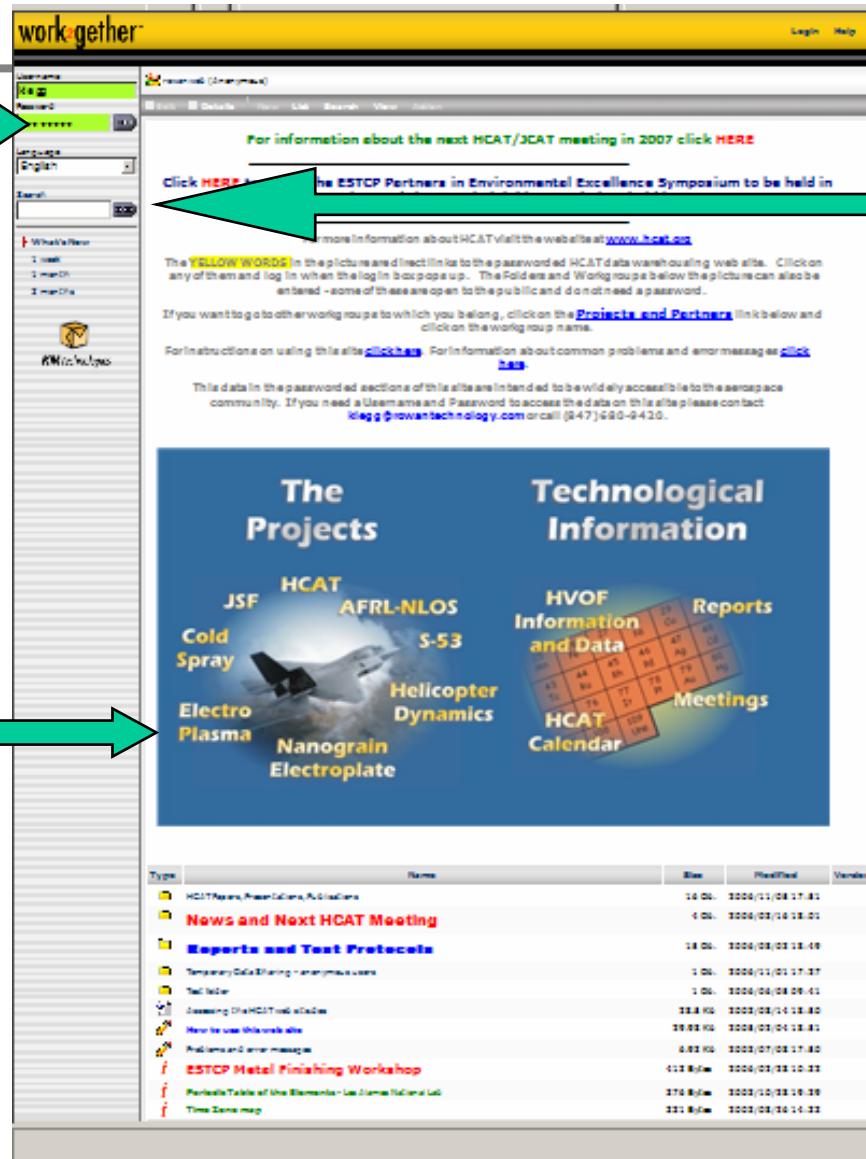
Password: hello.hcate

Or:

hcateguest/hcate

Some people have their own
usernames with more extensive
rights

If you are a member of a
project your Project Workgroup
will have a workgroup
username and password



The screenshot shows the 'work together' login interface and the main 'materialoptions.com' dashboard. The login form has 'Username' and 'Password' fields. The dashboard features a yellow header bar with links for 'Logout', 'Help', and 'Search'. A green box labeled 'Search' is overlaid on the right side of the dashboard. The dashboard itself has sections for 'The Projects' (listing JSF, HCAT, AFRL-NLOS, S-53, Helicopter Dynamics, Cold Spray, Electro Plasma, Nanograin Electropplate) and 'Technological Information' (listing HVOF, Reports, Information and Data, Meetings, HCAT Calendar). A table at the bottom lists various documents and their details.

Type	Name	Size	Modified	Version
HCAT News, Press Releases, Announcements	14 KB	2006/11/03 17:41		
News and Next HCAT Meeting	4 KB	2006/03/16 12:01		
Reports and Test Protocols	12 KB	2006/03/16 11:01		
Temporary Data Sharing Interoperability	1 KB	2006/11/03 17:41		
Test Plan	1 KB	2006/03/16 09:41		
Assessing the HCAT Test Suite	22 KB	2006/03/16 13:41		
How to use this website	20 KB	2006/03/16 12:41		
Helpdesk and error messages	8 KB	2006/03/16 13:41		
ESTCP Metal Finishing Workshop	612 KB	2006/03/16 12:41		
Periodic Table of the Elements in Various Materials	276 KB	2006/10/22 19:19		
Time Zone Map	233 KB	2006/03/16 14:41		

The HCAT Team Workspace –

www.materialoptions.com

- Dynamic – constantly increasing number of files
- Location for all the reports, data, briefings from meetings
- All briefings from HCAT meetings (in PDF)
 - This meeting briefings will be on site in about a week under Meetings-HCAT Program Review\27th Program Review
- ESOH background info
- Specs and standards
- Place to share info, upload and download files
- Separate workgroup for each project to warehouse and share data and work in progress
 - Open only to members of that project



www.hazmat-alternatives.com

**Portal for information on alternatives,
regulations, etc., with links to other
locations. Includes databases, on-line tools**

Home Links >>> Home News/Events About Contact Links Resources Site Map


 Hazmat
 Alternatives
 
 Registered users log in here:

 Username:

 Password:

 Login
 
 Not registered, click here:
 
 The International portal for identifying and implementing alternatives to hazardous materials and coatings in commercial and defense products
 
 Wear & Corrosion Alternatives | Surface Engineering Database | DoD & Aerospace Programs | Teams & Workgroups | US and European Rules | Industry Solutions | Technology & Reports | Home

- Info on regulations, including EU rules
- Publicly released reports and briefings

Surface Engineering Database under construction

- Will contain data as downloadable Excel files, reports, including rig test and service experience
- Include sources

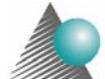
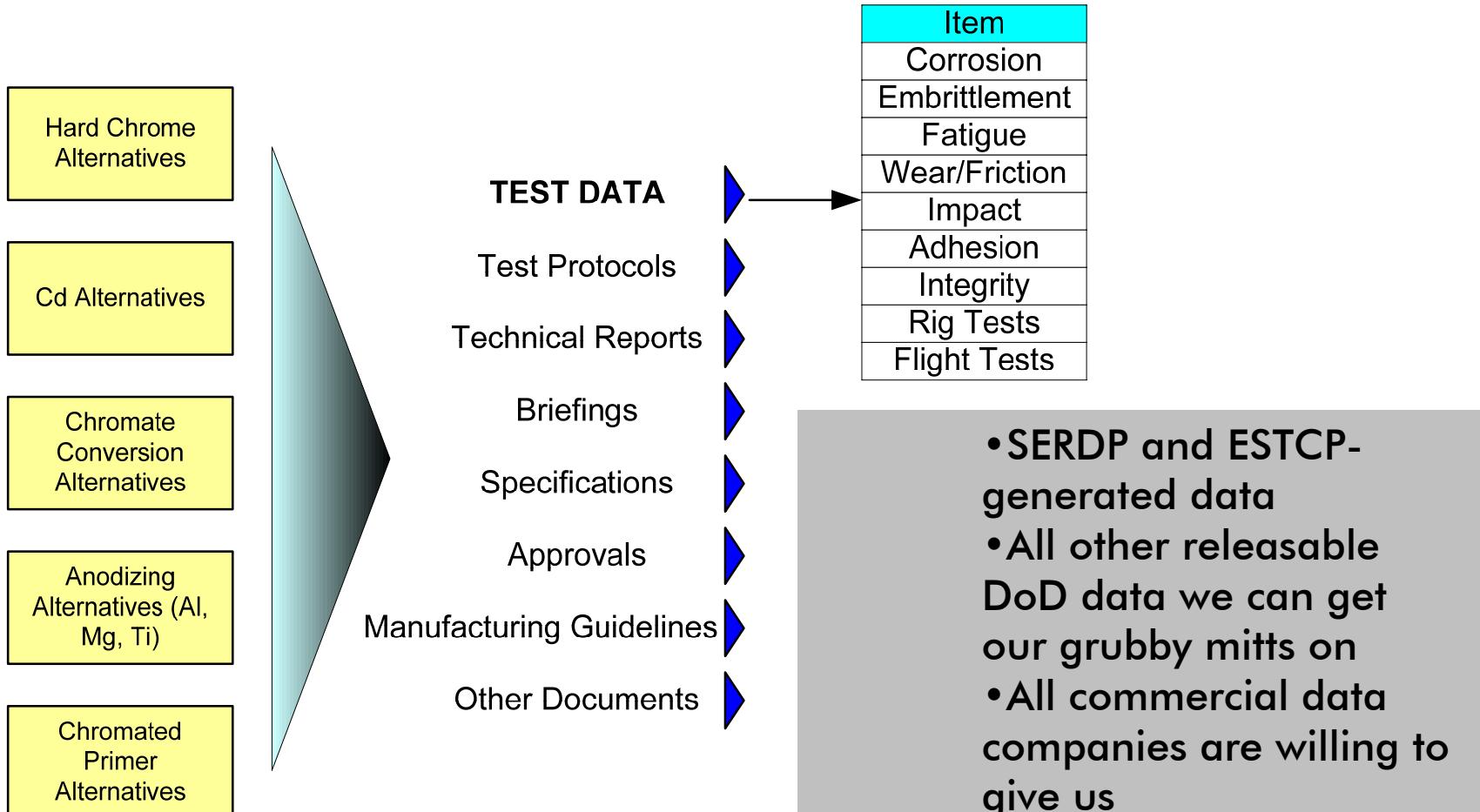

 US, European and other international environmental regulations
 
 Alternatives to banned and restricted materials
 
 Alternatives to processes that cause emission of or exposure to hazardous materials

We provide comprehensive solutions for meeting ever stricter environmental regulations...

- Technology summaries, briefings, reports
- Tools for Roadmapping, Cost Benefit Analysis and Technology Evaluation

Keith Legg, klegg@rowantecnology.com

Surface Engineering Database



Example – Existing data for HVOF

Windows Internet Explorer
 http://www.materialoptions.com/w2g/cgi/kmcgi.exe?O=DIR0000000MX3&V=0

Google rose thorn

Onfolio

Links >

Projects and partners

HCAT
 Hard Chrome Alternatives Team

HVOF Data

Data summary - Fatigue

Edit Details | New List Search View Action

Type	Name	Size	Modified	Version
<input type="checkbox"/> Fatigue Actuator Final Curves	3 Ob.	2005/05/25 14:24		
<input type="checkbox"/> Fatigue GTE Final Curves	41 Ob.	2006/01/05 14:24		
<input type="checkbox"/> Database of axial fatigue - APS - WC-17Co & T400	261.26 Kb	2005/06/14 15:22	1	
<input type="checkbox"/> Database of axial fatigue - Bare substrates	364.23 Kb	2005/06/14 15:23	1	
<input type="checkbox"/> Database of axial fatigue - Electroplate - EHC	374.21 Kb	2005/06/14 15:23	1	
<input type="checkbox"/> Database of axial fatigue - HVOF - T400	312.47 Kb	2005/06/14 15:23	2	
<input type="checkbox"/> Database of axial fatigue - HVOF - T800	218.18 Kb	2005/06/14 15:23	1	
<input type="checkbox"/> Database of axial fatigue - HVOF - WC-10Co-4Cr & Cr ₃ C ₂ -NiCr	271.85 Kb	2005/06/14 15:22	1	
<input type="checkbox"/> Database of axial fatigue - HVOF - WC-17Co	348.11 Kb	2005/06/14 15:24	1	
<input checked="" type="checkbox"/> Fatigue Actuator Final.xls	344.5 Kb	2005/05/25 14:31	1	

Trusted sites 100% 95%

Improved Database

- Data will be rearranged for easy search and download
- Excel files that can be downloaded for ease of analysis
- All reports and briefings containing data from rig and service testing will be downloadable
- Additional materials and coatings to be added as data become available
 - Including data on commercial coatings and treatments
- Push the production of proper engineering data suitable for decision-making
 - Minimize the amount of testing needed for validation at each site

Where is HCAT going?

- We are in process of developing plans – nothing fully decided yet
- **Maintain successful teaming and workshop approach**
- Collate engineering data on coatings and finishes and make available on-line to the community
 - Have started modifying out www.hazmat-alternatives web site
- Set up more topical workshops and webinars to help identify and implement cleaner, better technologies
 - Suggestions?
- Collaborate closely with other groups and organizations (DoD and commercial) to further development and adoption of cleaner and better materials and coatings
- Bruce will replace Chuck Pellerin at Program Office
- Keith to concentrate on assisting Program Office

We need a new name!

- ❑ Change name to protect the innocent and reflect broader mission
 - Surface finishing, including Cr, Cd, chromates, primers
 - Alloys and composites
 - Clean processes and materials
 - Can argue anything that works better and makes things last longer is PP
 - If additional funding can be obtained from other agencies, could include repair technologies in general, and all materials, whether or not they are specifically to eliminate hazmats
 - **Suggestions so far – better ideas?**
 - **Surface Finishing and Coating Team (SFACT)**
 - **Material and Process Alternatives Team (MPAT)**

